

A d d e n d u m

Iowa Department of Transportation

Date of Letting: June 21, 2016

Office of Contracts

Date of Addendum: June 13, 2016

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
108	91-C091-108	PPC PAVEMENT - NEW	WARREN	FM-C091(108)--55-91	21JUN108.A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0010 2102-2710070 EXCAVATION, CLASS 10 ROADWAY AND BORROW:

From: 8,984.000 CY

To: 2,199.000 CY

Change Proposal Line No. 0020 2115-0100000 MODIFIED SUBBASE:

From: 4,248.500 CY

To: 1,402.000 CY

Change Proposal Line No. 0030 2121-7425022 GRANULAR SHOULDERS, TYPE B, PLACE ONLY:

From: 1,993.900 TONS

To: 1,600.000 TONS

Delete Proposal Line No. 0210 2599-9999003 ('CUBIC YARD' ITEM) DELIVER AND STOCKPILE SALVAGED MATERIALS; 7,274.000 CY

Add Proposal Line No. 0271 2526-8285000 CONSTRUCTION SURVEY; 1.000 LS

If the above changes are not made, they will be made as shown here.

Make the following changes to the plans:

Replace plan sheets A.1, A.3, B.1, C.1, C.2, C.3, C.4, C.7, D.1-D.9, & W.1 - W.15.

Sheet A.1

- Added revision sheet to Index of Sheets
- Added line to Index of Seals for the revision sheet
- Changed the sheet total number

Sheet A.3

- Added sheet for listing of project revisions and signature block

Sheet B.1

- Changed the shoulder width from 3 feet to 2 feet
- Added note to modified subbase

Sheet C.1

- Revised quantities for Excavation, Class 10, Roadway and Borrow, Modified Subbase, and Granular Shoulders, Type B, Place Only
- Revised the Estimate Reference Information for Excavation, Class 10, Roadway and Borrow, Modified Subbase, and Granular Shoulders, Type B, Place Only
- Deleted the Deliver and Stockpile Material bid item
- Added Construction Survey bid item

Sheet C.2

- Revised the Modified Subbase quantities on Tabulation 100-24

Sheet C.3

- Removed Tabulation 110-13

Sheet C.4

- Revised the shoulder width and granular shoulder quantity on Tabulation 112-9

Sheet C.7

- Removed note about the owner performing construction staking

Sheet D.1-D.9

- Raised the proposed profile grade approximately 3 inches

Sheet W.1-W.15

- Revised all the cross sections to show the raised profile grade and 2 foot shoulder width

For Utility Contact Info.
Refer to Sheet No. A.2

For Standard Road Plans
Refer to Sheet No. C.2



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

FARM-TO-MARKET SYSTEM

WARREN COUNTY

PCC PAVEMENT - NEW

On G76, from the Otter Creek Bridge
east approximately 2.3 miles to US Hwy 65.

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Iowa DOT Standard Specifications for additional information.



MILEAGE SUMMARY

105-1
9-27-94

Div.	Location	Lin. Ft.	Miles
1	Sta. 538+35.00 to Sta. 660+81.28	12,246.28	2.32
	Total Project	12,246.28	2.32

DESIGN DATA RURAL

2012 AADT 340 V.P.D.
20-- AADT -- V.P.D.
20-- DHV -- V.P.H.
TRUCKS -- %
Total
Design ESALs --

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	DANIEL A. STURM	Primary Signature Block
A.3	DANIEL A. STURM	Revisions

REVISIONS

SEE REVISION SHEET A.3 06-08-2016

TOTAL

40

PROJECT IDENTIFICATION NUMBER

PROJECT NUMBER

FM-C091(108)--55-91

R.O.W. PROJECT NUMBER

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Legend Sheet (B&W Plans Only)
A.3	Revision Sheet
B Sheets	Typical Cross Sections and Details
B.1	Typical Cross Sections and Details
C Sheets	Quantities and General Information
C.1	Estimated Project Quantities
C.2 - 4	Tabulations
C.5 - 6	Pollution Prevention Plan
C.7	General Notes
D Sheets	Mainline Plan and Profile Sheets
D.1 - 9	County Highway G76
G Sheets	Survey Sheets
G.1	Reference Ties and Bench Marks
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
J.2	Detour Plan Sheet
L Sheets	Geometric, Staking and Jointing Sheets
L.1 - 2	Superelevation Sheets
W Sheets	Mainline Cross Sections
W.1 - 15	Mainline Cross Sections

WARREN COUNTY, IOWA

David S. Carroll, PE

COUNTY ENGINEER

ACCEPTED FOR LETTING

Doug Shull, Chair

Dean Yordt

Crystal McIntyre

BOARD OF SUPERVISORS



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature: _____ Date: _____

Printed or Typed Name

My license renewal date is December 31, 20 17.

Pages or sheets covered by this seal: A.1 - A.2; B.1; C.1 - C.7; D.1 - D.9; G.1; J.1 - J.2; L.1 - L.2; W.1 - W.15

FILE NO.

ENGLISH

DESIGN TEAM

JEO Consulting Group, Inc.

WARREN COUNTY

PROJECT NUMBER

FM-C091(108)--55-91

SHEET NUMBER

A.1

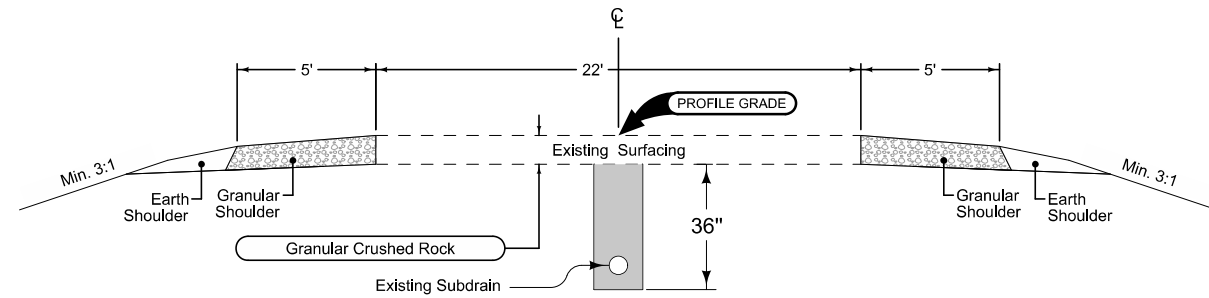
8:08:48 AM 6/10/2016 choffmann P:\Engineering\151797.00 - Warren County G76 PCC Reconstruction-Otter Creek Bridge to US 65\7 Design\2 Drawings\...\ProjectType\151797a01.sht

Changed by Addenda: 06/08/2016

LISTING OF PROJECT REVISIONS

DATE	SHEET NUMBER	DESCRIPTION OF REVISIONS
06/08/2016	A.1	ADDED REVISION SHEET TO INDEX OF SHEETS, INDEX OF SEALS LINE FOR REVISION SHEET, AND CHANGED THE SHEET TOTAL NUMBER.
06/08/2016	A.3	ADDED LISTING OF PROJECT REVISIONS AND SIGNATURE BLOCK FOR REVISIONS.
06/08/2016	B.1	CHANGED THE SHOULDER WIDTH TO 2 FEET, AND ADDED NOTE TO MODIFIED SUBBASE.
06/08/2016	C.1	REVISED QUANTITIES FOR EXCAVATION, CLASS 10, ROADWAY AND BORROW, MODIFIED SUBBASE, AND GRANULAR SHOULDERS, TYPE B, PLACE ONLY. REVISED THE ESTIMATE REFERENCE INFORMATION FOR EXCAVATION, CLASS 10, ROADWAY AND BORROW, MODIFIED SUBBASE, AND GRANULAR SHOULDERS, TYPE B, PLACE ONLY. DELETED DELIVER AND STOCKPILE SALVAGED MATERIAL BID ITEM. ADDED CONSTRUCTION SURVEY BID ITEM.
06/08/2016	C.2	REVISED THE MODIFIED SUBBASE QUANTITIES ON TABULATION 100-24.
06/08/2016	C.3	REMOVED TABULATION 110-13.
06/08/2016	C.4	REVISED THE SHOULDER WIDTH AND GRANULAR SHOULDER QUANTITY ON TABULATION 112-9.
06/08/2016	C.7	REMOVED NOTE ABOUT THE OWNER PERFORMING CONSTRUCTION STAKING.
06/08/2016	D.1-D.9	RAISED THE PROPOSED GRADE PROFILE 3 INCHES.
06/08/2016	W.1-W.15	REVISED ALL THE CROSS SECTIONS TO SHOW THE NEW PROFILE AND 2 FOOT SHOULDERS.

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
	Signature <i>Daniel Sturm</i>	Date <i>6/10/16</i>
	Printed or Typed Name DANIEL A. STURM, P. E.	
	My license renewal date is December 31, 20 <u>17</u>	
Pages or sheets covered by this seal: <u>A.1; A.3; B.1; C.1 - C.4; C.7; D.1 - D.9; W.1 - W.15</u>		

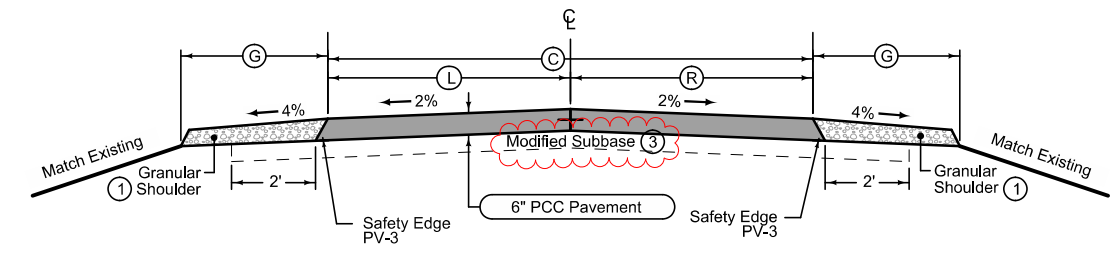


County Highway G76
Existing Cross Section

Granular Shoulder

		2_G_SR_10-19-10
STATION TO STATION		Ⓖ Feet
538+35.00	538+85.00	2

1 See Detail 7135 on sheet B.1



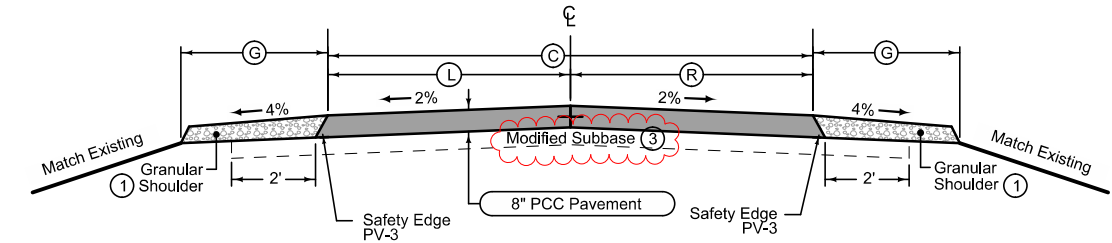
Mainline Jointing:
Transverse joints: C at 15' spacing
Longitudinal joint: L-2

County Highway G76

Granular Shoulder

2_G_SR_10-19-10		
STATION TO STATION		Ⓒ Feet
538+85.00	660+81.28	2

1 See Detail 7135 on sheet B.1



Mainline Jointing:
Transverse joints: C at 15' spacing
Longitudinal joint: L-2

County Highway G76

3 Modified Subbase only required where fill is needed to bring the existing ground to the proper subbase elevation.

7135
Modified

1 Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2' and roll with loaded truck tire.

2 Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.

**TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER
ADJACENT TO PCC PAVEMENT**

LOCATION				T	E
ROAD IDENTIFICATION	STATION TO STATION		SIDE	Inches	Feet
County Highway G76	538+35.00	538+85.00	Both	6	2
County Highway G76	538+85.00	660+81.28	Both	8	2

3R_Overlay_04-19-11				
STATION TO STATION		C	L	R
538+35.00	538+85.00	22	11	11

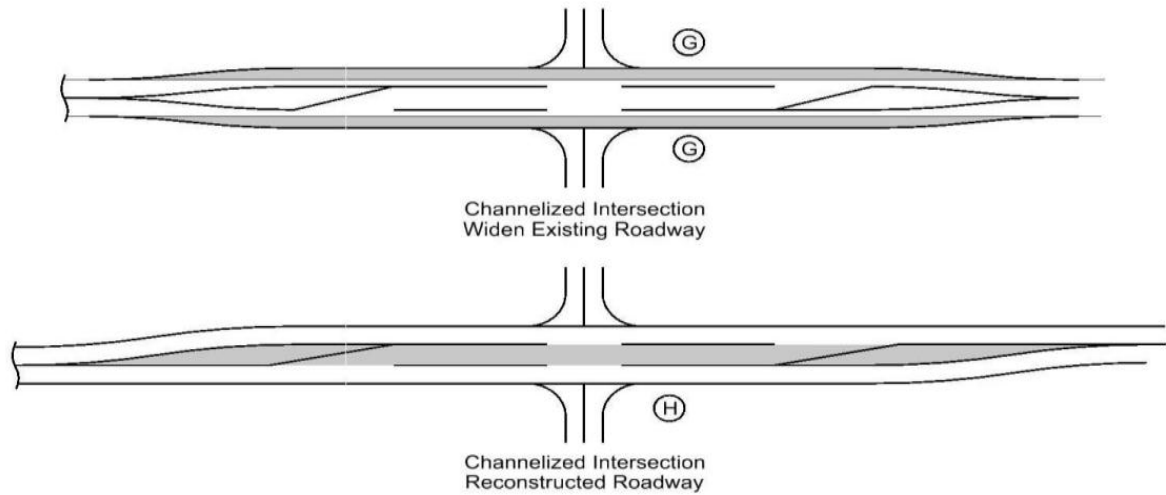
3R_Overlay_04-19-11				
STATION TO STATION		C	L	R
538+85.00	660+81.28	22	11	11

100-0A 10-28-97					
ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
10	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	2199	
20	2115-0100000	MODIFIED SUBBASE	CY	1402	
30	2121-7425022	GRANULAR SHOULDERS, TYPE B, PLACE ONLY	TON	1600	
40	2213-7100400	RELOCATION OF MAIL BOXES	EACH	2	
50	2301-1033060	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 6 IN.	SY	133.3	
60	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	SY	32600	
70	2301-1083080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS M, CLASS 3 DURABILITY, 8 IN.	SY	160	
80	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1	
90	2301-9091000	RUMBLE STRIP PANEL (PCC SURFACE)	EACH	2	
100	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	TON	100	
110	2314-0775010	CALCIUM CHLORIDE APPLIED	TON	228.7	
120	2314-0775015	WATER FOR SURFACE APPLICATION OF CALCIUM CHLORIDE	MGAL	36.1	
130	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	40	
140	2510-6745850	REMOVAL OF PAVEMENT	SY	330.3	
150	2518-6910000	SAFETY CLOSURE	EACH	8	
160	2524-9275222	WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 6 IN.	LF	56	
170	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	23	
180	2526-8285000	CONSTRUCTION SURVEY	LS	1	
190	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	389.69	
200	2528-8445110	TRAFFIC CONTROL	LS	1	
210	2533-4980005	MOBILIZATION	LS	1	
220	2599-9999003	DELIVER AND STOCKPILE SALVAGED MATERIALS	CY	7274	
230	2599-9999005	TEMPORARY MAILBOXES	EACH	10	
240	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	1.7	
250	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	200	
260	2602-0000071	REMOVAL OF SILT FENCE OF SILT FENCE FOR DITCH CHECKS	LF	200	
270	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	200	
280	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
10	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW TYPE 'A' COMPACTION REQUIRED. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED. THE FOLLOWING QUANTITIES ARE INCLUDED IN THIS BID ITEM: 2199 CUBIC YARDS CUT AND 2070 CUBIC YARDS FILL (WITH NO SHRINKAGE). CUT ROADWAY MATERIAL SHALL BE USED FOR GRANULAR SHOULDERS AS WELL AS FILL AREAS.
20	2115-0100000	MODIFIED SUBBASE REFER TO TYPICAL SECTIONS AND NOTES ON SHEET B.1 FOR ADDITIONAL INFORMATION. MODIFIED SUBBASE ONLY REQUIRED WHERE FILL IS NEEDED TO BRING THE EXISTING GROUND TO THE PROPER SUBBASE ELEVATION. QUANTITY SHALL BE PAID BASED ON ACTUAL QUANTITY PLACED USING CERTIFIED WEIGHT TICKETS BASED ON 140 PCF. NO PRICE ADJUSTMENT FOR QUANTITY OVERRUN OR UNDERRUN.
30	2121-7425022	GRANULAR SHOULDERS, TYPE B, PLACE ONLY REFER TO TYPICAL SECTIONS ON SHEET B.1 AND TABULATION 112-9 ON SHEET C.4 FOR ADDITONAL INFORMATION. THE CUT MATERIAL FROM THE ROADWAY EXCAVATION SHALL BE USED FOR THIS BID ITEM. THIS BID ITEM SHALL BE PAID AS A PLAN QUANTITY.
40	2213-7100400	RELOCATION OF MAIL BOXES MAILBOXES SHALL BE TEMPORARILY RELOCATED OUTSIDE OF CONSTRUCTION LIMITS. AT THE END OF CONSTRUCTION THEY SHALL BE PLACED BACK IN THEIR ORIGINAL LOCATIONS. REFER TO D SHEETS FOR DETAILS AND LOCATIONS. PAYMENT IS FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO RELOCATE MAILBOXES.
50	2301-1033060	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 6 IN. REFER TO B SHEETS FOR TYPICAL SECTIONS, AND TABULATION 100-24 FOR DETAILS AND LOCATIONS. THIS BID ITEM IS INCLUDED FOR THE TEMPORARY RUNOUT PAVEMENT SECTION FROM STATION 538+35.00 TO 538+85.00. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CERTIFIED PLANT INSPECTION IN ACCORDANCE WITH SPECIFICATION SECTION 2521 AS REQUIRED FOR THIS ITEM.
60	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN. REFER TO B SHEETS FOR TYPICAL SECTIONS, AND TABULATION 100-24 FOR DETAILS AND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CERTIFIED PLANT INSPECTION IN ACCORDANCE WITH SPECIFICATION SECTION 2521 AS REQUIRED FOR THIS ITEM.
70	2301-1083080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS M, CLASS 3 DURABILITY, 8 IN. REFER TO SHEET D.3 AND TABULATION 100-24 FOR DETAILS AND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CERTIFIED PLANT INSPECTION IN ACCORDANCE WITH SPECIFICATION SECTION 2521 AS REQUIRED FOR THIS ITEM.
80	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES - -
90	2301-9091000	RUMBLE STRIP PANEL (PCC SURFACE) BE PLACED BACK IN THEIR ORIGINAL LOCATIONS. REFER TO D SHEETS FOR DETAILS AND LOCATIONS. PAYMENT IS FULL ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO CONSTRUCT THE PANELS.

100-4A 10-29-02		
ESTIMATE REFERENCE INFORMATION		
Item No.	Item Code	Description
100	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE THIS BID ITEM IS FOR RESURFACING OF INTERSECTING ROADS AFFECTED BY CONSTRUCTION. REFER TO D SHEETS FOR DETAILS AND LOCATIONS. QUANTITIES ARE BASED ON MATCHING EXISTING SIDE ROAD WIDTHS, MEASURED 10 FEET FROM EDGE OF SHOULDER ON COUNTY HIGHWAY G76, AND 6" AVERAGE DEPTH. 140 PCF WAS USED TO CALCULATED THIS QUANTITY.
110	2314-0775010	CALCIUM CHLORIDE APPLIED THIS BID ITEM IS INCLUDED FOR DUST CONTROL ON THE DETOUR ROUTE ALONG THE FOLLOWING ROADS: 138TH AVENUE, TRUMAN STREET, AND TYLER STREET. SEE SHEET J.2 FOR LOCATION DETAILS. THE QUANTITY WAS CALCULATED USING 1 LB OF CALCIUM CHLORIDE PER SQUARE YARD OF ROAD. A ROADWAY WIDTH OF 24 FT AND LENGTH OF 3.61 MILES WAS USED TO CALCULATE THS QUANTITY. CALCIUM CHLORIDE SHALL BE APPLIED ONCE BEFORE BEGINNING CONSTRUCTION.
120	2314-0775015	WATER FOR SURFACE APPLICATION OF CALCIUM CHLORIDE THIS BID ITEM IS INCLUDED FOR WATER USED TO WET THE ROADBED BEFORE APPLICATION OF CALCIUM CHLORIDE. WATER SHALL BE APPLIED AT A RATE OF 10,000 GALLONS PER MILE. THIS ITEM SHALL BE MEASURED BY THOUSANDS OF GALLONS.
130	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE THIS BID ITEM IS FOR RESURFACING OF FIELD ENTRANCES AND DRIVEWAYS AFFECTED BY CONSTRUCTION. REFER TO TABULATION 102-3 ON SHEET C.3 FOR DETAILS AND LOCATIONS. QUANTITIES ARE BASED ON MATCHING EXISTING DRIVEWAY WIDTHS, MEASURED 10 FT FROM EDGE OF SHOULDER ON COUNTY HIGHWAY G76, AND 6" AVERAGE DEPTH. 140 PCF WAS USED TO CALCULATE THIS QUANTITY.
140	2510-6745850	REMOVAL OF PAVEMENT SEE TABULATION 110-1 ON SHEET C.4 FOR DETAILS AND LOCATIONS.
150	2518-6910000	SAFETY CLOSURE REFER TO TABULATION 108-13A ON SHEET C.2 FOR DETAILS AND LOCATIONS.
160	2524-9275222	WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 6 IN. REFER TO TABULATION 190-51 ON SHEET C.3 FOR ADDITIONAL INFORMATION.
170	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM BE PLACED BACK IN THEIR ORIGINAL LOCATIONS. REFER TO D SHEETS FOR DETAILS AND LOCATIONS. PAYMENT IS FULL W14-3 48"X48"X36" NO PASSING ZONE SIGNS. REFER TO TABULATION 190-51 ON SHEET C.3 FOR ADDITIONAL INFORMATION.
180	2526-8285000	CONSTRUCTION SURVEY THE CONTRACTOR SHALL SUPPLY ALL SURVEYING SERVICES REQUIRED TO BUILD THE PROJECT ACCORDING TO PLAN.
190	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED REFER TO TABULATION 108-22 ON SHEET C.4 FOR DETAILS AND LOCATIONS.
200	2528-8445110	TRAFFIC CONTROL REFER TO TRAFFIC CONTROL PLAN ON J SHEETS.
210	2533-4980005	MOBILIZATION - -
220	2599-9999003	DELIVER AND STOCKPILE SALVAGED MATERIALS EXCESS CLASS 10 ROADWAY AND BORROW MATERIAL SHALL BECOME PROPERTY OF THE COUNTY AND BE DELIVERED TO THE COUNTY STOCKPILE LOCATED NEAR THE INTERSECTION OF 118TH AVENUE AND NEVADA STREET APPROXIMATELY 3 MILES SOUTH OF INDIANOLA. SEE TABULATION 110-13 ON SHEET C.3 FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL CONTACT THE ENGINEER TO SCHEDULE DELIVERY AND STOCKPILING MATERIALS AT STOCKPILE SITE. THIS BID ITEM WILL BE MEASURED PER CUBIC YARD OF MATERIAL DELIVERED AND STOCKPILED. PAYMENT WILL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO SALVAGE, DELIVER, AND STOCKPILE THE MATERIAL.
230	2599-9999005	TEMPORARY MAILBOXES TEMPORARY MAIL SERVICE SHALL BE PROVIDED FOR RESIDENTS AFFECTED BY THE PROJECT IN ACCORDANCE WITH U.S. POST OFFICE REFULATIONS. TEMPORARY MAILBOXES SHALL BE SET UP AT THE INTERSECTION OF G76 AND 138TH AVE. LOCAL POST OFFICES AND RESIDENTS SHALL BE NOTIFIED ABOUT THE LOCATION OF THE MAILBOXES. PAYMENT IS FULL COMPENSATION FOR ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO SET UP, MAINTAIN, AND REMOVE TEMPORARY MAILBOXES.
240	2601-2636043	SEEDING AND FERTILIZING (RURAL) SEEDING SHALL MEET THE REQUIREMENTS SET FORTH IN IDOT 2015 STANDARD SPECIFICATIONS AND ANY APPLICABLE SUPPLEMENTAL SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY WITH THE COUNTY ALL AREAS TO BE SEEDDED PRIOR TO COMMENCING ANY WORK ON THE ITEM.
250	2602-0000030	SILT FENCE FOR DITCH CHECKS VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID TIEM INCLUDES 50% ADDITIONAL QUANTITY FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
260	2602-0000071	REMOVAL OF SILT FENCE OF SILT FENCE FOR DITCH CHECKS THIS ITEM IS INCLUDED FOR SILT FENCE AND SILT FENCE FOR DITCH CHECK REMOVAL REQUIRED FOR STAGING REASONS, REMOVAL TO ALLOW FOR REPLACEMENT (REPLACEMENT TO BE PAID SEPERATELY), OR FOR AREAS THAT HAVE ACHIEVED 70% PERMANENT GROWTH.
270	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS THIS ITEM IS INCLUDED FOR MAINTAINING THE NEW SILT FENCE AND SILT FENCE FOR DITCH CHECKS INSTALLED FOR THE AND GRADING PROJECT.
280	2602-0010010	MOBILIZATIONS, EROSION CONTROL - -

FILE NO.	ENGLISH	DESIGN TEAM	JEO Consulting Group, Inc.	WARREN COUNTY	PROJECT NUMBER	FM-C091(108)--55-91	SHEET NUMBER	C.1
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- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

[illegible]

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

[illegible]

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
538+00.00	1		BEGINNING OF PROJECT
549+00.00	1		UTAH ST.
578+50.00	1		WEST EDGE OF CLASS M MIX
578+75.00	2		145TH AVE.
579+10.00	1		EAST EDGE OF CLASS M MIX
634+90.00	1		155TH AVE.
661+00.00	1		END OF PROJECT

RUMBLE STRIP PANELS

Refer to Standard Road Plan PV-10.

Location			Pavement		Remarks
Road Ident.	Station	Side	New	Existing	
G76	651+65	RT	X		
G76	655+45	RT	X		

ACCESS POINTS AND SAFETY RAMPS

*Predetermined for access point not constructed with this project.

~~DELIVERY AND STOCKPILING~~

Changed By Addenda: 06/08/2016

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25 DCY4: Double Centerline (Yellow) @ 2.00 NPY4: No Passing Zone Line (Yellow) @ 1.25 BLW4: Broken Lane Line (White) @ 0.25 ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00

Location				Length by Line Type (Unfactored)																	Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4								
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
G76	538+35.00	539+33.00	BOTH	Waterborne/Solvent Paint		X		0.98													
G76	539+33.00	545+75.00	EB	Waterborne/Solvent Paint		X				6.42											
G76	545+75.00	547+10.00	BOTH	Waterborne/Solvent Paint		X			1.35												
G76	547+10.00	557+34.00	WB	Waterborne/Solvent Paint		X				10.24											
G76	557+34.00	568+73.00	BOTH	Waterborne/Solvent Paint		X		11.39													
G76	568+73.00	577+76.00	EB	Waterborne/Solvent Paint		X				9.03											
G76	577+76.00	585+87.00	BOTH	Waterborne/Solvent Paint		X			8.11												
G76	585+87.00	596+38.00	WB	Waterborne/Solvent Paint		X				10.51											
G76	596+38.00	600+15.00	BOTH	Waterborne/Solvent Paint		X		3.77													
G76	600+15.00	605+22.00	EB	Waterborne/Solvent Paint		X				5.07											
G76	605+22.00	610+29.00	BOTH	Waterborne/Solvent Paint		X			5.07												
G76	610+29.00	621+42.00	WB	Waterborne/Solvent Paint		X				11.13											
G76	621+42.00	625+38.00	BOTH	Waterborne/Solvent Paint		X		3.96													
G76	625+38.00	635+15.00	EB	Waterborne/Solvent Paint		X				9.77											
G76	635+15.00	643+08.00	WB	Waterborne/Solvent Paint		X				7.93											
G76	643+08.00	644+10.00	BOTH	Waterborne/Solvent Paint		X		1.02													
G76	644+10.00	653+64.00	EB	Waterborne/Solvent Paint		X				9.54											
G76	653+64.00	660+81.28	BOTH	Waterborne/Solvent Paint		X			7.17												
G76	538+35.00	578+46.00	EB	Waterborne/Solvent Paint			X					40.11									
G76	579+35.00	634+35.00	EB	Waterborne/Solvent Paint			X					55.00									
G76	635+39.00	660+81.28	EB	Waterborne/Solvent Paint			X					25.42									
G76	538+35.00	548+74.00	WB	Waterborne/Solvent Paint	X							10.39									
G76	549+34.00	578+20.00	WB	Waterborne/Solvent Paint	X							28.86									
G76	579+14.00	660+81.28	WB	Waterborne/Solvent Paint	X							81.67									
				FACTORED TOTAL: WATERBORNE/SOLVENT PAINT				5.28	43.41	99.55		241.46									
				BID QUANTITY: PAINTED PAVEMENT MARKINGS						389.69											

SHOULDERS

- ① Lane(s) to which the shoulder is adjacent.
② Bid Item
③ Applies only for Paved Shoulders constructed on project with existing granular shoulders.
④ Does not include shrink.

Calculations assume a HMA unit weight (lbs/cf) of 0, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

Location				Quantities																	Remarks			
Road Identification	① Direction Of Traffic	Station to Station		Side	P	G	L	Class 13 Excavation ③	Hot Mix Asphalt		Binder	Paved Shoulder	Reinforced Paved Shoulder	Special Backfill				Modified Subbase	Granular Shoulder			Earth Shoulder Construction Alternates		
					Width	Width	Length							HMA Alternate		PCC Alternate			STA ②	HMA		PCC		
					FT	FT	FT		CY ②	TON	TON/STA	TONS	SY ②	SY ②	TON ②	TON/STA	TON ②			TON/STA		CY ②	TON ②	TON/STA
G76	EB	538+35.00	660+81.28	RT		2.0	12246.3											800.1	6.2					
G76	WB	538+35.00	660+81.28	LT		2.0	12246.3											800.1	6.2					

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
538+35.00	538+90.50	BOTH	HMA	135.7		
660+15.61	660+81.28	BOTH	HMA	194.7		

GENERAL NOTES

CONTRACTOR TO WORK WITHIN RIGHT-OF-WAY LIMITS. ANY ENCROACHMENT ONTO PRIVATE PROPERTY SHALL BE IN AN AGREEMENT BETWEEN CONTRACTOR AND PROPERTY OWNER.

ALL DIMENSIONS AND DETAILS SHOWN ON THESE PLANS PERTINENT TO NEW CONSTRUCTION IN RELATION TO EXISTING ROADWAY AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY CONTRACTOR BEFORE STARTING CONSTRUCTION.

CONTRACTOR SHALL MAINTAIN THE PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM ANY PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

IF CONTRACTOR FAILS TO CONTROL EROSION, POLLUTION AND/OR SILTATION, OWNER RESERVES THE RIGHT TO EMPLOY OUTSIDE ASSISTANCE TO PROVIDE THE NECESSARY CORRECTIVE MEASURES. SUCH INCURRED COSTS PLUS PROJECT ENGINEERING COSTS WILL BE CHARGED TO THE CONTRACTOR, AND APPROPRIATE DEDUCTIONS WILL BE MADE FROM THE CONTRACTOR'S MONTHLY PROGRESS ESTIMATE.

CONTRACTOR WILL NOT BE PERMITTED TO PARK OR SERVICE VEHICLES AND EQUIPMENT OR USE CONSTRUCTION SITE FOR STORAGE OF MATERIALS. STORAGE, PARKING AND SERVICE AREA(S) WILL BE SUBJECT TO THE APPROVAL OF ENGINEER AND OWNER.

ALL CONSTRUCTION IS SUBJECT TO OBSERVATION BY ENGINEER AND/OR COUNTY. CONTRACTOR SHALL NOTIFY JEO (515-964-5310) AND WARREN COUNTY ENGINEER (513-695-3301) 72 HOURS PRIOR TO START OF CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE FROM THE ROAD SURFACE.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES (PUBLIC AND PRIVATE) AT LEAST 20 DAYS IN ADVANCE OF THE ACTUAL STARTING DATE OF CONSTRUCTION. THE CONTRACTOR IS TO DETERMINE ACTUAL LOCATION OF UTILITIES IN THE FIELD. THE CONTRACTOR IS TO USE DUE CAUTION IN WORKING OVER AND AROUND ALL UTILITY LINES. BREAKS IN THE UTILITY LINES DUE TO THE CONTRACTOR SHALL BE REPAIRED OR REPLACED WITHOUT COST TO THE OWNER OR ENGINEER.

OTHER EXISTING UNDERGROUND INSTALLATIONS AND STRUCTURES ARE INDICATED ON THE DRAWINGS ACCORDING TO THE INFORMATION FURNISHED TO THE ENGINEER BY OTHERS. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF SUCH INFORMATION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO LOCATE ALL EXISTING UNDERGROUND INSTALLATIONS AND STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE BY PROSPECTING IN ADVANCE OF EXCAVATION.

THE CONTRACTOR IS EXPECTED TO HAVE MATERIALS, EQUIPMENT, AND LABOR AVAILABLE ON A DAILY BASIS TO INSTALL AND MAINTAIN EROSION CONTROL FEATURES ON THE PROJECT. THIS MAY INVOLVE SEEDING, SILT FENCE, ROCK DITCH CHECKS, SILT BASINS, OR SILT DIKES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN REASONABLE ACCESS TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION. RELOCATED ACCESS SHALL BE COMPLETED TO INDIVIDUAL PROPERTIES PRIOR TO REMOVAL OF EXISTING ACCESS. IF THE PERMANENT ACCESS CANNOT BE COMPLETED PRIOR TO REMOVAL OF THE EXISTING ACCESS, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN ALTERNATE ACCESS.

CONTRACTOR SHALL PROVIDE WARREN COUNTY AND 911 OPERATOR WITH THE NAME AND PHONE NUMBERS OF THE REPRESENTATIVE TO BE CONTACTED DURING WORKING AND NON-WORKING HOURS AS NECESSARY.

TEMPORARY MAIL SERVICE IS TO BE PROVIDED FOR RESIDENTS AFFECTED BY THE PROJECT IN ACCORDANCE WITH U.S. POST OFFICE REGULATIONS. COORDINATE CONSTRUCTION SEQUENCING WITH THE WARREN COUNTY ENGINEER AND LOCAL POST OFFICES.

REMOVAL OF ANY EXISTING TRAFFIC MARKERS, WARNING DEVICES OR GUARDRAIL BARRIERS SHALL BE SCHEDULED SUBJECT TO THE APPROVAL OF THE COUNTY. THE CONTRACTOR MAY BE REQUIRED TO PLACE TEMPORARY WARNING DEVICES AT CERTAIN LOCATIONS WHERE REPLACEMENT FEATURES ARE NOT INSTALLED THE SAME DAY DURING WHICH ANY SUCH REMOVALS TAKE PLACE.

~~THE OWNER WILL PERFORM CONSTRUCTION STAKING FOR THIS PROJECT.~~

WARREN COUNTY SHALL SUPPLY STATION STAMPS, AND THE ON SITE INSPECTOR SHALL STAMP THE STATION IN THE FRESH CONCRETE AT 500 FOOT INTERVALS.

SCHEDULE OF OPERATION

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, PRIOR TO THE PRECONSTRUCTION CONFERENCE, A WRITTEN SCHEDULE FOR PERFORMANCE OF THE WORK ITEMS. THE SCHEDULE SHALL BE IN THE FORM OF A BAR GRAPH CHART OR CHART SHOWING STARTING AND COMPLETION DATED FOR THE ITEMS. THE CONTRACTOR SHALL THEN MAKE EVERY EFFORT TO CONFORM TO THE ACCEPTED SCHEDULE.

DRAWING APPROVAL

ALL WORKING DRAWINGS WHICH REQUIRE REVIEW BY THE CONTRACTING AUTHORITY SHALL BE REVIEWED BY JEO CONSULTING GROUP, INC.

JEO CONSULTING GROUP, INC.
DANIEL A. STURM, PE
1605 N. ANKENY BLVD.
ANKENY, IA 50023
515-964-5310

WARREN COUNTY ENGINEER
DAVID S. CARROLL, PE
301 N. BUXTON, SUITE 211
INDIANOLA, IOWA 50125
515-961-1050

UTILITY NOTE:
NEITHER THE OWNER (CLIENT) NOR JEO CONSULTING GROUP, INC. ASSUMES ANY RESPONSIBILITY FOR UTILITY LOCATIONS BEING ACCURATELY SHOWN OR NOT SHOWN ON THE PLANS. A DESIGN REQUEST FOR UTILITY LOCATES WAS MADE FOR THIS LOCATION AS PER THE ONE-CALL NOTIFICATION SYSTEM ACT. (DATE: 01/11/16 TICKET NO.: 551600056)

UTILITIES SHOWN ARE FROM MAPS AND INFORMATION PROVIDED BY THE UTILITY PROVIDERS. NO FIELD MARKINGS WERE PROVIDED.

THE EXACT LOCATION AND/OR SIZE OF UNDERGROUND FEATURES MAY NOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. FIELD VERIFICATION OF UTILITIES MAY BE REQUIRED. CONTRACTOR(S) SHALL NOTIFY THE REPECTIVE UTILITY COMPANIES BEFORE COMMENCING ANY WORK.

